

From: PRESINSURV NORFOLK VA(uc) [PRESV3@PRESINSURV.Organization.com]
Sent: Tuesday, April 15, 2003 10:34 AM
To: 2003 INCOMING MSGS
Subject: INSURV QUARTERLY SURFACE SHIP MESSAGE NR 18

Importance: Low

R 151336Z APR 03 PRESINSURV NORFOLK VA(uc)

UNCLAS

PASS TO OFFICE CODES:

FM PRESINSURV NORFOLK VA//

TO CNO WASHINGTON DC//N09/N096/N09B/N3/N4/N43/N45/N454/N5/
N8/N86/N87/N88//

COMLANTFLT NORFOLK VA//N01/N3/N4/N43/N45/N46/N465/N467//

COMPACFLT PEARL HARBOR HI//N01/N3/N4/N43/N45/N46/N466//

COMNAVSURFOR SAN DIEGO CA//N43/N6//

COMSUBLANT NORFOLK VA//N01/N3/N4/N45/N451//

CNET PENSACOLA FL//01/00X1/N34//

COMSC WASHINGTON DC//N00/N01/N00S/N4/N42/PM1/PM2//

BUMED WASHINGTON DC//02/24/242//

COMNAVSURFPAC SAN DIEGO CA//N00/01/N3/N4/N41/N43/N44/
N418/N6/N8//

COMNAVSURFLANT NORFOLK VA//N00/N01/N3/N4/N41/N43/N44/N6/N8//

COMINWARCOM CORPUS CHRISTI TX//N00/N01/N4/N42/N43/N6//

COMNAVAIRLANT NORFOLK VA//N00/N01/N3/N43/N45/N454/N8//

COMNAVAIRPAC SAN DIEGO CA//N00/N01/N3/N43/N45/N454/N8//

COMSUBPAC PEARL HARBOR HI//N01/N3/N4/N45/N451//

COMNAVSAFECEN NORFOLK VA//00/30//

COMSCLANT NORFOLK VA//N4/N47//

COMSCPAC SAN DIEGO CA//N4/N47//

INFO COMNAVSEASYS COM WASHINGTON DC//00/00T/00TA2/04M/04X/04L/
05NI/05/05D/05P/05U/05Z/91/91W/915/92TE//

PEO SHIPS WASHINGTON DC//PMS400/PMS400F/PMS307/PMS325/PMS377/
PMS303/PMS407///

PEO IWS WASHINGTON DC//00//

PEO CARRIERS WASHINGTON DC//00/01/PMS312/PMS378//

PEO C4I AND SPACE SAN DIEGO CA//C4I/C4IE/C4IT//

COMSPAWARSSYSCOM SAN DIEGO CA//00/04/05/07//

NAVICP MECHANICSBURG PA//NAVICP-04/41/42/424/51//

NAVMELOGCOM FT DETRICK MD//03//

NETPDTC PENSACOLA FL//N34//

NAVPERSDEVCOM NORFOLK VA//

NAVSURFWARCEN SHIPSYS ENG STA PHILADELPHIA PA//9750//

NAVSURFWARCEN CARDEROCK DIV BETHESDA MD//24//

NAVSURFWARCENDIV CORONA CA//QA33//

COMAFLOATRAGR U ATLANTIC NORFOLK VA//00//

COMAFLOATRAGRUPAC SAN DIEGO CA//00//

COMAFLOATRAGRUMIDPAC PEARL HARBOR HI//00//

COMAFLOATRAGR UWESTPAC YOKOSUKA JA//00//

SWOSCOLCOM NEWPORT RI//60//

COMNAVRESFOR NEW ORLEANS LA//00//

SERVSCOLCOM GREAT LAKES IL//01//

NAVENVIRHLTHCEN PORTSMOUTH VA//00/01/IH//

NAVOSHENVTRACEN NORFOLK VA//00/01//

FTSCLANT NORFOLK VA//00/4100//

FTSCPAC SAN DIEGO CA//00/300/308//

SUBJ/INSURV QUARTERLY SURFACE SHIP MESSAGE NR 18//

1. FOR TYCOMS: REQUEST THIS MESSAGE BE READDRESSSED FOR WIDEST DISSEMINATION TO APPROPRIATE SURFACE UNITS AND ISICS.

2. THIS QUARTERLY MESSAGE IS INTENDED TO PROVIDE INFORMATION THAT WILL HELP IMPROVE SURFACE FLEET MATERIAL CONDITION. THE FOLLOWING COMBAT SYSTEMS AND C4I-RELATED ISSUES ARE HIGHLIGHTED:

- LINKED VISITS (C5RA)
- ANTENNA MAINTENANCE
- ZONE-INSPECTION PROGRAM
- C-HET WATERFRONT SUPPORT
- UPDATED AREA AIR DEFENSE/SELF DEFENSE INSTRUCTIONS
- MINE WARFARE CHECKLISTS
- NEW STRIKE WARFARE DEMONSTRATION

AS A REMINDER, THE INSURV NIPRNET WEBSITE APPEARS AT WWW.SPAWAR.NAVY.MIL (SLANT) FLEET (SLANT) INSURV. CHECK SHEETS AND INSTRUCTIONS GOVERNING TRIALS AND INSPECTIONS ARE OBTAINED BY FOLLOWING THE "INSP.PREPS" LINK. UNITS PREPARING FOR INSPECTIONS ARE ADVISED TO CHECK THESE SITES FREQUENTLY. AS CHECK SHEETS AND INSTRUCTIONS GET UPDATED, THEY ARE POSTED HERE.

3. LINKED VISITS: OPNAVINST 4730.5N (SUBJ: TRIALS AND MATERIAL INSPECTIONS OF SHIPS CONDUCTED BY THE BOARD OF INSPECTION AND SURVEY) WAS ISSUED IN JAN 03 AND SETS THE POLICY FOR TRIALS AND MATERIAL INSPECTIONS (MI'S) OF SHIPS BY INSURV. A SIGNIFICANT CHANGE TO THE INSTRUCTION WAS CLARIFICATION IN THE PROCEDURES USED TO LINK OTHER INSPECTIONS/ASSESSMENTS TO MI'S. IN ORDER TO CONSOLIDATE INSPECTIONS AND AVOID REDUNDANCY, DEFICIENCIES IDENTIFIED DURING OTHER MAJOR SHIP INSPECTIONS/ASSESSMENTS (SUCH AS C5RA/HMERA) CAN BE INCORPORATED INTO THE FINAL INSURV INSPECTION REPORT, IF THE ASSESSMENT IS CONDUCTED WITHIN 60 DAYS OF THE SCHEDULED MI (OR AS NEGOTIATED BETWEEN THE TYCOM AND INSURV). ALSO, THE EQUIPMENT OPERATIONAL CAPABILITY (EOC) SCORE REPORTED IN THE INSURV QUICKLOOK MESSAGE WILL REFLECT THE AS-FOUND CONDITION OF THE EQUIPMENT AT THE BEGINNING OF THE EVENT TO WHICH THE MI IS LINKED. IN THE INSURV REPORT, DEFICIENCIES WILL BE IDENTIFIED AS CORRECTED, WHERE APPLICABLE. THE TYCOM WILL DOCUMENT THE LINKED EVENT BY MESSAGE TO INSURV, FTSC, AND THE AFFECTED UNIT FOUR MONTHS PRIOR TO THE SCHEDULED MI. IT IS IMPORTANT THAT THE LINKAGE BE IDENTIFIED EARLY SO THAT REQUIRED COORDINATION BETWEEN INSURV, FTSC, AND THE SHIP CAN BE ACCOMPLISHED. IF THE LINKAGE IS DESIGNATED PRIOR TO THE INSURV PREBRIEF, THE PREBRIEF CAN BE APPROPRIATELY FOCUSED AND ADDITIONAL TIME IS AVAILABLE FOR DEVELOPMENT OF A MODIFIED INSPECTION SOE. TO DATE IN FY03, THERE HAVE BEEN THREE LINKED INSPECTIONS AND THE PROCESS USED TO LINK THE EVENTS APPEARS TO BE EFFECTIVE. SUMMARY OF KEY EVENTS AND THEIR TIMING RELATIVE TO THE MI START DATE FOLLOWS:

- A. 120 DAYS PRIOR: TYCOM NOMINATES EVENTS FOR LINKAGE VIA MSG.
- B. 90 DAYS PRIOR (APPROX): INSURV PRE-BRIEF DELIVERED TO SHIP.
- C. 60 DAYS PRIOR: WINDOW OPENS FOR LINKED EVENTS.

4. ANTENNA MAINTENANCE: DURING THE FIRST HALF OF FY03, MI'S FREQUENTLY REVEALED DEFICIENCIES IN MAINTENANCE OF HF, VHF, AND UHF-LOS ANTENNAS. ANTENNAS ARE INEXTRICABLE COMPONENTS OF RADIO-COMMUNICATIONS SYSTEMS. POORLY MAINTAINED ANTENNAS CAUSE DEGRADED COMMUNICATION-SYSTEM PERFORMANCE AND CONTRIBUTE TO A MAJORITY OF FAILURES OF COMMUNICATIONS-TRANSMISSION COMPONENTS (E.G., TRANSMITTERS, TRANSCEIVERS, AMPLIFIERS, ETC.). IN

MAINTAINING RADIO-COMMUNICATIONS ANTENNAS, IT IS RECOMMENDED THAT COMMO'S AND EMO'S REMAIN PERSONALLY COGNIZANT OF THE FOLLOWING:

A. ANTENNA RADIATING ELEMENTS. MAINTAINING PAINT SYSTEMS ON ANTENNA RADIATING ELEMENTS IS ESSENTIAL FOR PROPER PERFORMANCE. FAILURE OF PAINT COATINGS LEADS TO DEGRADED ANTENNA ELECTRICAL PERFORMANCE, AS EVIDENCED BY OUT-OF-SPEC VSWR'S. FOR ANTENNAS LOCATED IN PARTICULARLY SEVERE LOCATIONS (E.G., IN VICINITY OF STACK EXHAUST), IT MAY BE JUDICIOUS TO PERFORM VSWR MEASUREMENTS AND VISUAL INSPECTIONS (E.G., IAW 4400/1 A-43, A-47R) MORE FREQUENTLY THAN PMS REQUIRES. MATERIALS AND PROCEDURES FOR PRESERVING ANTENNAS ARE PRESCRIBED BY PMS (E.G., 4400/1 U-10 AND U-11).

B. TRANSMISSION LINES AND CONNECTORS. TRANSMISSION LINES MUST BE PROPERLY SUPPORTED WITH APPROVED MOUNTING HARDWARE. PLASTIC TIE STRAPS ARE NEVER APPROPRIATE FOR SUPPORTING TRANSMISSION LINES. ALSO, PROPER WEATHERPROOFING OF CONNECTORS IS CRITICAL TO PREVENT INTRUSION OF THE ELEMENTS INTO ANTENNA PORTS. WEATHERPROOFING PROCEDURES ARE PRESCRIBED BY PMS (E.G., 4400/1 U-11). FTSC CAN PROVIDE ADDITIONAL GUIDANCE ON BEST PRACTICES SPECIFIC TO LOCAL CLIMATES. TIME-DOMAIN REFLECTOMETRY (TDR) MEASURES ELECTRICAL PERFORMANCE OF TRANSMISSION LINES AND CONNECTORS. DESCRIBED IN TECH MANUAL 0967-LP-177-3040 SEC 3.5, TDR CAN BE ACCOMPLISHED WITH ASSISTANCE (IF NEEDED) FROM FTSC'S, SRF'S, OR SIMA'S.

C. COUPLERS, MATCHING NETWORKS, AND TERMINAL BOXES. MAINTAINING WATERTIGHT INTEGRITY OF THESE ABOVE-DECK ELECTRONICS ENCLOSURES REPRESENTS A PARTICULAR CHALLENGE. MOREOVER, IN THE CASE OF HFRG-CONFIGURED CRUISERS, WATER INTRUSION INTO TERMINAL BOXES FOR FANTAIL-MOUNTED WHIP ANTENNAS CAN COMPLETELY CURTAIL SHIPS' HF RECEIVE CAPABILITIES. IN ALL CASES, COMMO'S AND EMO'S ARE STRONGLY ADVISED TO ENSURE COMPLETION OF 4411/11 A-47R "AFTER EXTENDED AT-SEA PERIODS OR EXPOSURE TO SALT SPRAY OR SOOT."

D. FTSC'S IN NORFOLK, VA AND SAN DIEGO, CA PROVIDE ONE-DAY COURSES INSTRUCTING RESPONSIBLE SHIPS' TECHNICIANS IN ANTENNA-MAINTENANCE PROCEDURES.

5. ZONE INSPECTION PROGRAM. ALL SHIPS ARE ENCOURAGED TO REVIEW AND INCORPORATE COMNAVSURFORINST 3120.1, WHICH PRESCRIBES RESPONSIBILITIES AND PROCEDURES FOR THE ZONE INSPECTION PROGRAM WITHIN THE NAVAL SURFACE FORCE. AN ACTIVE AND EFFECTIVE ZONE INSPECTION PROGRAM IS A KEY INGREDIENT IN MAINTAINING COMBAT SYSTEMS MATERIAL CONDITION READINESS AND ENHANCING THE SELF-ASSESSMENT OF VITAL COMBAT SYSTEMS EQUIPMENT.

6. COMBATANT HOMEPORT ENGINEERING TEAM (C-HET) SUPPORT. C-HET WATERFRONT PROGRAM-MANAGEMENT REPRESENTATIVES (PMR) (LOCATED IN YOKOSUKA, NORFOLK, SAN DIEGO, EVERETT, MAYPORT, PEARL HARBOR, AND PASCAGOULA) ARE INVALUABLE SOURCES OF DOCUMENTATION, DRAWINGS, AND MISCELLANEOUS SUPPORT FOR SURFACE SHIPS (OTHER THAN AIRCRAFT CARRIERS). A SPECIFIC SUPPORT ITEM OF NOTE IS TOPSIDE CORROSION-RESISTANT (CRES) HARDWARE AVAILABLE FOR ISSUE AT NO COST TO THE SHIPS. CONTACT THE LOCAL WATERFRONT C-HET FOR DETAILS.

7. UPDATED AREA AIR-DEFENSE (AD) AND SELF-DEFENSE (SD) INSTRUCTION. IN JAN 03 THE INSURV INSTRUCTION GOVERNING THE CONDUCT OF THE AIR DEFENSE, SELF DEFENSE AND LONG RANGE AIR SEARCH RADAR PERFORMANCE DEMONSTRATIONS WAS UPDATED. ALTHOUGH THERE WERE NO MAJOR CHANGES IN THE CONDUCT OF THE DETECT-TO-

ENGAGE DEMONSTRATION PROCEDURES, THE SCORING WAS MODIFIED, ALLOWING SHIPS IN CERTAIN CIRCUMSTANCES TO ACHIEVE A SATISFACTORY GRADE WITHOUT HAVING ALL FIRE CONTROL DIRECTORS/ ILLUMINATORS AVAILABLE. SHIPS PREPARING FOR MI'S ARE ADVISED TO REVIEW THE UPDATED INSTRUCTION.

8. MINE WARFARE CHECKLISTS. A NUMBER OF MINE-WARFARE CHECKLISTS WERE RECENTLY POSTED TO THE INSURV NIPRNET SITE. INCLUDED ARE CHECKLISTS ON MINESWEEP EQUIPMENT INVENTORY, INFLUENCE REEL CONTROL STATION, INSTRUMENTED SHEAVES, MAGNETIC AND ACOUSTIC CABLE REELS, STERN CRANES, FANTAIL EQUIPMENT, MINE NEUTRALIZATION/VEHICLE HANDLING SYSTEMS, UMBILICAL CABLE HANDLING SYSTEMS AND BATTLE SPACE PROFILER. ALSO INCLUDED, BUT SPECIFIC TO THE MHC CLASS, ARE CHECKLISTS ON THE MULTIPURPOSE CRANE, MISSION PACKAGE MAGAZINE AND THE SYQ-13 NAVIGATION SYSTEM. CHECKLISTS THAT WILL BE ADDED ONCE FINALIZED INCLUDE SQQ-32(V) SONAR, OK-530 WINCH, SSQ-94 ONBOARD TRAINER AND THE PRECISE INERTIAL NAVIGATION SYSTEM (PINS). THE CHECKLISTS INCLUDE THE REFERENCES AND CITE THE SPECIFIC PMS CHECKS, WHERE APPLICABLE.

9. STRIKE DEMO. BEGINNING IN JUL 03, TRIALS AND MI'S FOR STRIKE-CAPABLE SHIPS WILL INCLUDE A STRIKE DEMO IN ADDITION TO EXISTING COMBAT SYSTEMS DEMONSTRATIONS AND DTE'S. DEMONSTRATING MATERIAL CONDITIONS OF INSTALLED SYSTEMS, STRIKE DEMO'S WILL EXERCISE SHIPS' ABILITIES TO RECEIVE AND PROCESS TOMAHAWK MISSION-DATA UPDATES AND EXECUTE TOMAHAWK PRE-LAUNCH SEQUENCES. DEMONSTRATION PROCEDURES WILL FOCUS ON EQUIPMENT OPERATING PARAMETERS (AS OPPOSED TO TACTICAL OR TRAINING ASPECTS). STRIKE-WARFARE EQUIPMENT TO BE DEMONSTRATED WILL INCLUDE COMMUNICATIONS EQUIPMENT (OTCIXS, TADI XS, SCI ADNS, STU III, EHF), TWCS OR ATWCS, DATABASE MANAGEMENT EQUIPMENT, SALVO WARNING ALARMS, TOXIC GAS VENT DAMPER/COMBAT SYSTEMS RECIRC DAMPERS, AND ASSOCIATED SUPPORT EQUIPMENT. DETAILS CONCERNING THE STRIKE-DEMO INSTRUCTION WILL APPEAR ON THE INSURV WEBSITE IN MAY 03.

10. THE POINT OF CONTACT FOR MORE INFORMATION IS CDR JOHN DAVIDSON, COMM: (757) 462-7578 EXT. 3020, DSN 253-7578 OR E-MAIL: DAVIDSON@INSURV.NOSC.MIL.

11. MINIMIZED CONSIDERED.//